

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/008007

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L27/142 H01L31/0392 H01L31/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/13882 A (AKZO NOBEL NV ;MIDDELMAN ERIK (NL); ANDEL ELEONOR VAN (NL); SCHRO) 2 April 1998 (1998-04-02) cited in the application page 1, line 15 - page 2, line 8 page 16, line 22 - page 17, line 2; figures 1-13	1-3,7,8
Y	WO 03/001602 A (DUBBELDAM GERRIT CORNELIS ;AKZO NOBEL NV (NL)) 3 January 2003 (2003-01-03) page 5, line 14 - page 8, line 2; claims 1,6 page 8, lines 13-31; figures 1-5 ----- -/--	1,2,6-8

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the International search

18 October 2004

Date of mailing of the International search report

26/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Visentin, A

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/008007

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 210 451 A (TELEFUNKEN ELECTRONIC GMBH) 4 February 1987 (1987-02-04) page 3, line 7 - page 4, line 32; figures 1A-1D	1,2,6-8
A	US 5 637 510 A (KUMABE HISAO ET AL) 10 June 1997 (1997-06-10) column 3, line 39 - column 4, line 34; figures 1A-1H	1-3
A	WO 01/47020 A (AKZO NOBEL NV) 28 June 2001 (2001-06-28) cited in the application the whole document	1,2,6-8
A	EP 0 948 004 A (AKZO NOBEL NV) 6 October 1999 (1999-10-06) paragraph '0001! - paragraph '0010! paragraph '0013! - paragraph '0014!	1,2,6-8
A	SCHROPP R E I ET AL: "NOVEL AMORPHOUS SILICON SOLAR CELL USING A MANUFACTURING PROCEDURE WITH A TEMPORARY SUPERSTRATE" AMORPHOUS AND HETEROGENEOUS SILICON THIN FILMS: FUNDAMENTALS TO DEVICES - 1999. SAN FRANCISCO, CA APRIL 5 - 9, 1999, MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS. VOL. 557, WARRENDALE, PA: MRS, US, vol. 557, 5 September 1999 (1999-09-05), pages 713-718, XP000895243 ISBN: 1-55899-464-5 the whole document	1,6-8
A	DE 39 35 826 A (GEN ELECTRIC) 13 June 1990 (1990-06-13) the whole document	7
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 09, 31 July 1998 (1998-07-31) & JP 10 093125 A (SANYO ELECTRIC CO LTD), 10 April 1998 (1998-04-10) abstract	1,3,4,7

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/008007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9813882	A	02-04-1998	AU 735142 B2 AU 4706497 A BR 9711418 A CA 2267076 A1 CN 1231772 A , B DE 69730337 D1 WO 9813882 A1 EP 0931356 A1 JP 2001501035 T KR 2000048653 A RU 2190901 C2 TW 444414 B US 6184057 B1 ZA 9708610 A	05-07-2001 17-04-1998 24-08-1999 02-04-1998 13-10-1999 23-09-2004 02-04-1998 28-07-1999 23-01-2001 25-07-2000 10-10-2002 01-07-2001 06-02-2001 26-03-1998
WO 03001602	A	03-01-2003	WO 03001602 A2 EP 1397837 A2	03-01-2003 17-03-2004
EP 0210451	A	04-02-1987	DE 3527001 A1 EP 0210451 A2 JP 63034981 A US 4697042 A	19-02-1987 04-02-1987 15-02-1988 29-09-1987
US 5637510	A	10-06-1997	JP 3169497 B2 JP 7183552 A US 5510272 A	28-05-2001 21-07-1995 23-04-1996
WO 0147020	A	28-06-2001	NL 1013900 C2 AU 3016201 A WO 0147020 A1 US 2001037823 A1	25-06-2001 03-07-2001 28-06-2001 08-11-2001
EP 0948004	A	06-10-1999	EP 0948004 A1 AT 248429 T AU 741400 B2 AU 2934799 A CA 2325729 A1 CN 1297568 T DE 69910751 D1 DE 69910751 T2 WO 9949483 A1 EP 1066642 A1 ES 2205789 T3 JP 2002508573 T PT 1066642 T US 6613598 B1 ZA 200005074 A	06-10-1999 15-09-2003 29-11-2001 18-10-1999 30-09-1999 30-05-2001 02-10-2003 08-07-2004 30-09-1999 10-01-2001 01-05-2004 19-03-2002 30-01-2004 02-09-2003 21-12-2001
DE 3935826	A	13-06-1990	DE 3935826 A1 FR 2638568 A1 GB 2224391 A IT 1239117 B JP 2177576 A	13-06-1990 04-05-1990 02-05-1990 28-09-1993 10-07-1990
JP 10093125	A	10-04-1998	NONE	